





Vaughn W. North Registered Patent Attorney vnorth@tnw.com

May 4, 2007

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

### TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Re: U.S. Patent Application No. 10/577,116 filed February 8, 2007

Applicant:

Title: Method of Adjusting Linear Parameters of a Parametric Ultrasonic Signal to Reduce Non-Linearities in Decoupled Audio Output Waves and System

**Including Same** 

Group Art Unit: 2615

Attorney Docket No.: 00025-21940.PCT.US

#### Sir/Madam:

Transmitted herewith for filing and pursuant to 37 C.F.R. §§ 1.56 and 1.97 is an Information Disclosure Statement. Enclosed also are the following designated documents, as required under 37 C.F.R. §§ 1.97 and 1.98:

	Concise explanation of relevance of each reference not in English and unaccompanied by an English translation.
require	llowing are included within the Information Disclosure Statement if applicable and as 37 C.F.R. § 1.98:
	All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. § 1.98(c)).
	Legible copies of the listed <u>non-patent documents</u> , <u>unpublished U.S. applications and foreign documents</u> or their relevant portions are included.
	Form PTO/SB/08A and PTO/SB/08B list of <u>17</u> 57eferences submitted for consideration.

	Statement that certain listed references not enclosed are substantially cumulative of an enclosed reference.
	Statement that certain listed references not enclosed were previously cited by or submitted to the Office in prior application no. , filed on, which is relied upon for an earlier filing date under 35 U.S.C. § 120.
if requ	er to secure consideration of the items designated above, one or more of the following, also enclosed:
	Statement under 37 C.F.R. § 1.97(e)(1) or (2).
	Check No, which includes the amount of \$ (amount in § 1.17(p)) constituting the submission fee set forth in 37 C.F.R. § 1.17(p).

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

very truty yours

Vaughn-W. North Attorney for Applicant Registration No. 27,930

THORPE NORTH & WESTERN, LLP Customer No. 20,551 P.O. Box 1219 Sandy, Utah 84091-1219 Telephone: (801) 566-6633

VN/st



### IN THE UNITED STATES PATENT & TRADEMARK OFFICE

ART UNIT:	2615	CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8
EXAMINER:		DATE OF DEPOSIT: May 23,2007
APPLICANT:	James J. Croft III	I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or
SERIAL NO.:	10/577,116	enclosed) is being deposited with the United States Postal Service with sufficient postage as first class
FILED:	February 8, 2007	mail on the date indicated above and is addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
CONFRM. NO.:	4408	SPMAN
FOR:	METHOD OF ADJUSTING LINEAR PARAMETERS OF A PARAMETRIC ULTRASONIC SIGNAL TO REDUCE NON-LINEARITIES IN DECOUPLED AUDIO OUTPUT WAVES AND SYSTEM INCLUDING SAME	Stacia Pentz
DOCKET NO.:	00025-21940.PCT.US	

### INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir/Madam:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO/SB/08A and PTO/SB/08B which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure statement is filed pursuant to:

	$\boxtimes$	37 C.F.R. § 1.97(b)(1) or (3), within three months of the filing date of the application, o
before a	a first of	fice action on the merits, whichever occurs last;
		37 C.F.R. § 1.97(c), after a first office action on the merits, but before a Final Office
Action	or a Not	tice of Allowance, whichever occurs first, and is accompanied by either 1) a statement in
accorda	ance wit	h 37 C.F.R. § 1.97(e), or 2) the fee set forth in 37 C.F.R. § 1.17(p); or

Patent Application No. 10/577,116 Attorney Docket No.: 00025-21940.PCT.US

37 C.F.R. § 1.97(d), after a Final Office Action or Notice of Allowance, whichever occurs first, but on or before payment of the issue fee, and is accompanied by both 1) a statement in accordance with 37 C.F.R. § 1.97(e), and 2) the fee set forth in 37 C.F.R. § 1.17(p).

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 37 C.F.R. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

A legible copy of each of the listed non-patent literature, unpublished U.S. applications, and foreign documents or their relevant portions is enclosed.

Copies of the references listed in the accompanying Form PTO/SB/08A and PTO/SB/08B are NOT enclosed because, under 37 C.F.R. § 1.98.(d), they were previously cited by or submitted to the Office in application number , which is relied upon for an earlier filing date under 37 C.F.R. § 1.20.

For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or to credit any overpayment to Deposit Account No. 20-0100.

Dated May 23, 2007.

Very truly your

Vaugha W. North Attorney for Applicant Registration No. 27930

THORPE NORTH & WESTERN, LLP Customer No. 20,551 P.O. Box 1219 Sandy, Utah 84091-1219 (801) 566-6633

VN/st Enclosures

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet of

	Complete if Known
Application Number	10/577,116
Filing Date	04/24/06
First Named Inventor	James Croft
Art Unit	
Examiner Name	
Attorney Docket Number	00025-21940.PCT.US

			U.S. PATENT DO	CUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant
Initials*	No.'	Number-Kind Code <sup>2</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear
/XM/	1	1,616,639	2/8/27	Sprague	
8	2	1,764,008	6/17/30	Crozier	
0000	3	1,799,053	3/31/31	Mache	
00000	4	1,809,754	6/9/31	Steedle	
-	5	1,951,669	3/20/34	Ramsey	
	6	1,983,377	12/4/34	Kellogg	
	7	2,461,344	2/8/49	Olson	
	8	2,855,467	10/7/58	Curry	
	9	2,872,532	2/3/59	Buchmann et al	
	10	2,935,575	5/3/60	Bobb	
	11	2,975,243	3/14/61	Katella	
	12	2,975,307	3/14/61	Schroeder et al	
	13	3,008,013	11/7/61	Williamson et al	
	14	3,012,222	12/5/61	Hagemann	
	15	3,136,867	6/9/64	Brettell	
	16	3,345,469	10/3/67	Rod	
	17	3,373,251	3/12/68	Seeler	
	18	3,389,226	6/18/68	Peabody	
	19	3,398,810	8/27/68	Clark III	
0000	20	3,461,421	8/12/69	Stover	
	21	3,544,733	12/1/70	Reylek	
	22	3,612,211	10/12/71	Clark III	,
11/	23	3,613,069	10/12/71	Cary, Jr.	
W	24	3,654,403	4/4/72	Bobb, deceased	
/XM/	25	3,674,946	7/4/72	Winey	

Examiner	/Vu Naci/	Date 11/13/08
Signature	/Xu Mei/	Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. Applicant is to place a check mark here if English language Translation is attached.

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DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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First Named Inventor	James Croft
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Examiner Name	
Attorney Docket Number	00025-21940.PCT.US

	,		U.S. PATENT DO		
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevan
Initials*	No.¹	Number-Kind Code <sup>2</sup> (If known)	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear
/XM/	26	3,710,332	1/9/73	Tischner et al	
	27	3,723,957	3/27/73	Damon	
	28	3,742,433	6/26/73	Kay et al	
	29	3,787,642	1/22/74	Young Jr.	
	30	3,821,490	6/28/74	Bobb	
	31	3,829,623	8/13/74	Willis et al	
	32	3,833,771	9/3/74	Collinson	
	33	3,836,951	9/17/74	Geren et al	
	34	3,892,927	7/1/75	Lindenberg	
	35	3,919,499	11/11/75	Winey	
	36	3,941,946	3/2/76	Kawakami et al	
	37	3,997,739	12/14/76	Kishikawa et al	
	38	4,015,089	03/29/77	Ishii et al.	
	39	4,056,742	11/1/77	Tibbetts	
	40	4,064,375	12/20/77	Russell et al	
	41	4,160,882	7/10/79	Driver	
	42	4,207,571	6/10/80	Passey	
	43	4,210,786	7/1/80	Winey	
	44	4,242,541	12/30/80	Ando	
	45	4,245,136	1/13/81	Krauel, Jr.	
	46	4,284,921	8/18/81	Lemonon et al	
	47	4,289,936	9/15/81	Civitello	
	48	4,295,214	10/13/81	Thompson	
	49	4,322,877	4/6/82	Taylor	
	50	4,378,596	3/29/83	Clark	
	51	4,385,210	5/24/83	Marquiss	
1/	52	4,418,404	11/29/83	Gordon et al	
W	53	4,419,545	12/6/83	Kuindersma	
/XM/	54	4,429,193	1/31/84	Busch-Vishniac et al	

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Examiner Initials*	Cite No.	Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> – Kind Code <sup>3</sup> (IT known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
Examiner Signature		/Xu Mei/		Date Considered	  1/13/08	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Application Number	10/577,116		
Filing Date	04/24/06		
First Named Inventor	James Croft		
Art Unit			
Examiner Name			
Attorney Docket Number	00025-21040 PCT US		

U.S. PATENT DOCUMENTS						
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevan	
Initials*	No.¹	Number-Kind Code <sup>2 (If known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	
/XM/	55	4,434,327	2/28/84	Busch-Vishniac et al		
	56	4,439,642	3/27/84	Reynard		
0000	57	4,471,172	9/11/84	Winey		
	58	4,480,155	10/30/84	Winey		
9	59	4,550,228	10/29/85	Walker et al		
999	60	4,558,184	12/10/85	Busch-Vishniac et al		
0000	61	4,593,160	6/3/86	Nakamura		
0000	62	4,593,567	6/10/86	Isselstein et al		
9000	63	4,600,891	07/1986	Taylor, Jr. et al.		
	64	4,672,591	6/9/87	Breimesser et al		
	65	4,695,986	9/22/87	Hossack		
000	66	4,751,419	6/14/88	Takahata		
000	67	4,784,915	11/15/88	Sakagami et al.		
0000	68	4,803,733	2/7/89	Carver et al		
	69	4,823,908	4/25/89	Tanaka et al		
	70	4,837,838	6/6/89	Thigpen et al		
	71	4,885,781	12/5/89	Seidel		
0000	72	4,887,246	12/12/89	Hossack et al		
00000	73	4,888,086	12/19/89	Hossack et al		
	74	4,903,703	2/27/90	Igarashi et al		
0000	75	4,908,805	3/13/90	Sprenkels et al		
0000	76	4,939,784	7/3/90	Bruney		
00000	77	4,991,148	2/5/91	Gilchrist		
0000	78	5,054,081	10/1/91	West		
0000	79	5,095,509	03/1992	Volk		
00000	80	5,115,672	5/26/92	McShane et al		
	81	5,142,511	8/25/92	Kanai et al		
*	82	5,153,859	10/6/92	Chatigny et al		
/XIM/	83	5,287,331	2/15/94	Shindel et al		

		FOI	REIGN PATENT DOC	UMENT	rs			
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> – Kind Code <sup>5</sup> (Irknown)	Publication Date MM-DD-YYYY	1	lame of Patentee cant of Cited Do		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
Examiner Signature	/Xu Mei/				Date Considered	1:	1/13/08	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, indication of the year of the reign of the Emperor must precede the serial number of the patent document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Art Unit						
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Initials*	No.¹	Number-Kind Code <sup>2 (If known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear
/XM/	84	5,317,543	5/31/94	Grosch	
8	85	5,357,578	10/18/94	Taniishi	
8	86	5,392,358	2/21/95	Driver	
	87	5,430,805	7/4/95	Stevenson et al	
	88	5,487,114	1/23/96	Dinh	
***************************************	89	5,539,705	07/1996	Akerman et al.	·
	90	5,638,456	6/10/97	Conley et al	
	91	5,700,359	12/23/97	Bauer	
***************************************	92	5,767,609	06/16/98	Suganuma	
	93	5,745,582	04/1998	Shimpuku et al.	
	94	5,758,177	05/1998	Gulick et al.	
	95	5,859,915	1/12/99	Norris	
00000	96	5,885,129	3/23/99	Norris	
	97	5,889,870	3/30/99	Norris	
-	98	5,892,315	04/06/99	Gipson et al.	
	99	5,982,805	11/09/99	Kaneda	
	100	6,011,855	1/4/00	Selfridge et al	
	101	6,044,160	03/28/00	Norris	
	102	6,108,427	8/22/00	Norris et al	
	103	6,064,259	05/2000	Takita	
	104	6,151,398	11/21/00	Norris	
	105	6,188,772	2/13/01	Norris et al	
	106	6,229,899	5/8/01	Norris et al	
8	107	6,232,833	05/2001	Pullen	
8	108	6,304,662	10/16/01	Norris et al	
-	109	6,359,990	03/2002	Norris	
8	110	6,378,010	04/2002	Burks	
<b>\</b>   /	111	6,445,804	09/2002	Hirayanagi	
<b>W</b>	112	6,556,687	04/290/3	Manabe	
/XM/	113	6,768,376	07/2004	Hoyt et al.	

HE DATENT DOCUMENTS

	FOREIGN PATENT DOCUMENTS								
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee of	or Pages, Columns, Lines, Where				
Initials*	No.'	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Date MM-DD-YYYY	Applicant of Cited Doc	cument Relevant Passages or Relevant T <sup>6</sup> Figures Appear				
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/XM/	114	6,859,096	02/2005	Tanaka et al.	i ussuges of relevant rigures Appear
8	115	1,643,791	04/1924	Slepian	
-	116	3,012,107	12/1961	Hanlet	
-	117	3,908,098	09/1975	Kawakami et al.	
-	118	3,961,291	06/1976	Harper et al.	
-	119	4,809,355	02/1989	Drefahl	
-	120	5,748,758	05/1998	Menasco, Jr. et al.	
_	121	6,104,825	08/15/00	Thigpen	
<del>-  </del>	122	6,108,433	08/22/00	Norris	
_	123	2002/0191808	12/19/02	Croft III. et al.	
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Examiner	Cite	Foreign Patent Document	Publication	N	ame of Patentee	or	Pages, Columns, Lines, Where	
Initials*	No.¹	Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)	Date MM-DD-YYYY	Applic	cant of Cited Doo	cument	Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
Examiner Signature		/Xu Mei/			Date Considered	:	11/13/08	

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	Complete if Known
Application Number	10/577,116
Filing Date	04/24/06
First Named Inventor	James Croft
Art Unit	
Examiner Name	
Attorney Docket Number	00025-21940.PCT.US

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Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns,	
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STA	STATEMENT BY APPLICANT		First Named Inventor	James J. Croft III			
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Sheet		of	Attorney Docket Number	00025-21940.PCT.US			

			NON PATENT LITERATURE DOCUMENTS	
Examiner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), titl Initials* No.1 the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-is number(s), publisher, city and/or country where published.		T²		
/X	M/	1	ULTRASONIC RANGING SYSTEM by Polaroid Corporation	
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Signature		Considered	

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			First Named Inventor	James J. Croft III		
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